

April 14, 2011

VIA STRIPES

Mr. William S. Glover
Deputy Laboratory Director
and Chief Operating Officer
National Renewable Energy Laboratory (NREL)
1617 Cole Boulevard
Golden, CO 80401-3393

SUBJECT: Contract No. DE-AC36-08GO28308– Modification No. 326

Dear Mr. Glover:

Subject Modification is hereby submitted for your review and execution. The purpose of this Modification is to:

- I. Delete Section H, Clause H.2-Workforce Transition
- II. Delete Section H, Clause H.32-Privately Funded Technology Transfer Program
- III. Correct administrative error on Mod 306 Section H, Clause H.38-DOE Access to Contractor's Leased Premises, correctly titled to Section H, Clause H.40-DOE Access to Contractor's Leased Premises
- IV. Delete and replace Section J, Attachment E-Applicable Laws and Regulations (List A)
- V. Delete and replace section J, Attachment F-Operating and Administrative Requirements (List B)
- VI. Incorporate Section J, Attachment J, NREL's Performance Evaluation and Measurement Plan dated March 25, 2011
- VII. Incorporate Section J, Attachment K, NREL's Diversity Plan dated March 24, 2011
- VIII. Incorporate Section J, Attachment O, NREL's Commercialization Plan dated September 1, 2010
- IX. Incorporate Section J, Attachment P, NREL's 5 Year Strategic Plan dated September 1, 2010

Please return one signed copy of the Modification to the Golden Field Office, attention Jessica Finley, by close-of-business, **April 28, 2011**.

If you have questions regarding this modification, please contact me at 303-275-4924.

Sincerely,

Jean M. Siekerka
Contracting Officer

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. CONTRACT ID CODE: **11EB003706** PAGE OF PAGES: **1** / **2**

2. AMENDMENT/MODIFICATION NO.: **326** 3. EFFECTIVE DATE: **See Block 16C** 4. REQUISITION/PURCHASE REQ. NO.: **11EB003706** 5. PROJECT NO. (if applicable):

6. ISSUED BY: **Golden Field Office** CODE: **03601** 7. ADMINISTERED BY (if other than Item 6): **Golden Field Office** CODE: **03601**
 U.S. Department of Energy
 Golden Field Office
 1617 Cole Blvd.
 Golden CO 80401-3393

8. NAME AND ADDRESS OF CONTRACTOR (No. street, county, State and ZIP Code): **ALLIANCE FOR SUSTAINABLE ENERGY, LLC**
 Attn: RONALD D. TOWNSEND
 1617 COLE BLVD.
 MS 1715
 GOLDEN CO 804013393

9A. AMENDMENT OF SOLICITATION NO.:
 9B. DATED (SEE ITEM 11):
 9C. MODIFICATION OF CONTRACT/ORDER NO.: **DE-AC36-08G028308**
 9D. DATED (SEE ITEM 13): **07/29/2008**

CODE: **805948051** FACILITY CODE:

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers is extended. is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (if required)

13. THIS ITEM ONLY APPLIES TO MODIFICATION OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

CHECK ONE

A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.

B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation data, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).

C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:

D. OTHER (Specify type of modification and authority):
X Clause I, 149 970.5243-1 Changes (Dec. 2001)

8. IMPORTANT: Contractor is not is required to sign this document and return **1** copies to the Issuing Office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/control subject matter where feasible)

DUNS Number: **805948051**

LIST OF CHANGES:
 Reason for Modification: **Other Administrative Action**
 Total Amount for this Modification: **\$0.00**
 New Total Amount for this Version: **\$0.00**
 New Total Amount for this Award: **\$1,586,794,392.73**

Clause I.140 970.5232-4 Obligation of Funds is changed to reflect the amount presently obligated by the Government with respect to this contract is \$1,586,794,392.73.
 Delivery Location Code: **03601**
 Golden Field Office
 Continued ...

Except as provided herein, all terms and conditions of the document referenced in Item 6A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print): **[Signature]**

15B. CONTRACTOR/OFFEROR: **W.S. Glover** (Signature of person authorized to sign)

15C. DATE SIGNED: **4/21/11**

15D. NAME AND TITLE OF CONTRACTING OFFICER (Type or print): **Jean M. Siekerka**

15E. UNITED STATES OF AMERICA: **Signature on File** (Signature of Contracting Officer)

15F. DATE SIGNED: **04/14/2011**

NAME OF OFFEROR OR CONTRACTOR
ALLIANCE FOR SUSTAINABLE ENERGY, LLC

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	U.S. Department of Energy Golden Field Office 1617 Cole Blvd. Golden CO 80401-3393 Mark For: Golden Field Office U.S. Department of Energy Golden Field Office 1617 Cole Blvd. Golden CO 80401-3393 FOB: Destination Period of Performance: 07/29/2008 to 09/30/2013 Add Item 10009 as follows:				
10009	Admin. Mod. - Modifying Contract Clauses Obligated Amount: \$0.00				0.00

This Modification incorporates the following significant changes to contract DE-AC36-08GO28308:

- I. Section H, Clause H.2, Workforce Transition, is hereby deleted and replaced with Reserved
- II. Section H, Clause H.32, Privately Funded Technology Transfer Program, is hereby deleted and replaced with Reserved
- III. Administrative error on Modification 306 incorrectly titled Section H, Clause H.38, DOE Access to Contractor's Leased Premises, was previously incorporated into the contract and is being correctly titled to Section H, Clause H.40, DOE Access to Contractor's Leased Premises
- IV. Section J, Attachment E Applicable Laws and Regulations (List A) is deleted and replaced as follows to reflect additional Executive Order 13514 Federal Leadership in Environmental, Energy, and Economic Performance:

Attachment E Applicable Laws And Regulations (List A)

**Necessary and Sufficient Environmental,
 Safety and Health Standards
 Revised: 04/14/2011**

CODE OF FEDERAL REGULATIONS (CFR)
10 CFR 8.4 - Interpretation by the General Counsel: AEC Jurisdiction
10 CFR 835 - Occupational Radiation Protection (Except Sections 101 (c), ALARA Plans and Measures, 402 (b), DOE Laboratory Accreditation Program for Personal Dosimetry, 901, General Employee Training, and 902, Radiological Workers Training)
10 CFR 851 - Worker Safety and Health Program
10 CFR 1021 - DOE NEPA Implementing Regulations, Subtitle B - DOE Decision making
10 CFR 1021 - DOE NEPA Implementing Regulations, Subtitle D - Typical Classes of Actions (Including ref. Appendices A-D)
OSH Act of 1970, Section 5 (a)(1) - General Duty Clause
29 CFR 1904 - OSHA Recordkeeping and Reporting Occupational Injuries and Illness
29 CFR 1910 - Occupational Safety and Health Standards for General Industry
29 CFR 1926 - Occupational Safety and Health Standards for the Construction Industry
33 CFR 320 - General Regulatory Policies
33 CFR 323 - Permits for Discharges of Dredged or Fill Material into Waters of the United States
33 CFR 325 - Processing of Department of the Army Permits
33 CFR 328 - Definition of Waters of the United States
33 CFR 330 - Nationwide Permits

36 CFR 63 - Determination of Eligibility for Inclusion in the National Register of Historic Places
36 CFR 65 - National Historic Landmarks Program
36 CFR 78 - Waiver of Federal agency responsibilities under section 110 of the National Historic Preservation Act
36 CFR 79 - Curation of Federally-Owned and Administered Archaeological Collections.
36 CFR 800 - Protection of Historic and Cultural Properties
40 CFR 50 - National Primary and Secondary Ambient Air Quality Standards
40 CFR 61- National Emission Standards for Hazardous Air Pollutants
40 CFR 66 - Assessment and Collection of Noncompliance Penalties by EPA
40 CFR 79 - Registration of Fuels and Fuel Additives
40 CFR 82 - Protection of Stratospheric Ozone
40 CFR 88 - Clean-Fuel Vehicles
40 CFR 110 - Discharge of Oil
40 CFR 112 - Oil Pollution Prevention
40 CFR 113 - Liability Limits for Small Onshore Storage Facilities
40 CFR 116 - Designation of Hazardous Substances
40 CFR 117 - Determination of Reportable Quantities for Hazardous Substances
40 CFR 122 - EPA Administered Permit Programs: The National Pollutant Discharge Elimination System (NPDES)
40 CFR 131 - Water Quality Standards
40 CFR 141 - National Primary Drinking Water Regulations
40 CFR 142 - National Primary Drinking Water Regulations Implementation
40 CFR 166 - Exemption of Federal and State Agencies for use of Pesticides under Emergency Conditions
40 CFR 171 - Certification of Pesticide Applicators
40 CFR 260-270 - Resource Conservation and Recovery Act (RCRA)
40 CFR 261 - Identification and Listing of Hazardous Waste
40 CFR 262 - Standards Applicable to Generators of Hazardous Waste
40 CFR 268 - Land Disposal Restrictions
40 CFR 273 - Standards for Universal Waste Management
40 CFR 279 - Standards for the Management of Used Oil
40 CFR 302 - Designation, Reportable Quantities, and Notification (CERCLA)
40 CFR 355 - Emergency Planning and Notification (CERCLA)
40 CFR 370 - Hazardous Chemical Reporting: Community Right -To-Know
40 CFR 401 - General Provisions - Effluent Guideline and Standards
40 CFR 403 - General Pretreatment Regulations for Existing and New Sources of Pollution
40 CFR 763 Subpart G - Asbestos Abatement Projects
49 CFR 107-199 - Transportation - Hazardous Materials Regulations
49 CFR 382-399 - Transportation - Federal Motor Carrier Safety Regulations
50 CFR 17 - Endangered and Threatened Wildlife and Plants

50 CFR 402 - Interagency Cooperation - Endangered Species Act of 1973
50 CFR 424 - Listing Endangered and Threatened Species and Designating Critical Habitat
50 CFR 450 - General Provisions - Endangered Species Exemption Process
50 CFR 451 - Application Process
UNITED STATES CODE (USC)
7 USC 136 et seq. - Environmental Pesticide Control Act
7 USC 136 et seq. - Federal Insecticide, Fungicide, and Rodenticide Act
7 USC 7701 Plant Protection Act 2000 (as amended by the Noxious Weed Control and Eradication Act 2004)
15 USC 2601 et seq.- Toxic Substances Control Act, Title II (Asbestos Hazard Emergency Response)
16 USC 431 et seq. - Antiquities Act of 1906
16 USC 470 et seq. - Archaeological Resources Protection Act of 1979 (ARPA)
16 USC 470 et seq. - National Historic Preservation Act of 1966 (NHPA)
16 USC 661 et seq. - Fish and Wildlife Coordination Act
16 USC 668 et seq. - Bald and Golden Eagle Protection Act
16 USC 703 et seq. - Migratory Bird Treaty Act
16 USC 1531 et seq. - Endangered Species Act of 1973
33 USC 1251, et seq. - Clean Water Act
33 USC 1321 - Oil and Hazardous Substances Liability (Clean Water Act, Section 311)
42 USC Sec. 300f et seq. - Safe Drinking Water Act, and 42 USC 201 - Safe Drinking Water Act Amendments of 1996
42 USC 6901 et seq. - Resource Conservation and Recovery Act (RCRA)
42 USC 7401 et seq. - Clean Air Act & Amendments
42 USC 9602 - CERCLA, Title I, Section 102 - Reportable Quantities and Additional Designations
42 USC 9603 - CERCLA, Title I, Section 103 - Notices, Penalties
42 USC 11000-11050 - Emergency Planning and Community Right-to-Know Act of 1986 (EPCRA)
42 USC 13101-13109 - Pollution Prevention Act of 1990
EXECUTIVE ORDER (EO)
EO 11593 - Protection and Enhancement of Cultural Environment 1971
EO 11738 - Providing for Administration of the Clean Air Act and the Federal Water Pollution Control Act with Respect to Federal Contracts, Grants or Loans
EO 11988 - Floodplain Management
EO 11990 - Protection of Wetlands
EO 12114 - Environmental Effects Abroad of Major Federal Actions
EO 12843 - Procurement Requirements and Policies for Federal Agencies for Ozone-Depleting Substances
EO 12856 - Federal Compliance with Right-to-Know Laws and Pollution Prevention Requirements
EO 12898 - Federal Actions to Address Environmental Justice in Minority Populations and Low Income Populations
EO 13112 - Invasive Species 1999
EO 13186 - Responsibilities of Federal Agencies to Protect Migratory Birds

EO 13423 – Strengthening Federal Environmental, Energy, and Transportation Management
EO 13514 – Federal Leadership in Environmental, Energy, and Economic Performance
OTHER FEDERAL STANDARDS
EPA Air Quality Standards
DEPARTMENT OF ENERGY
DOE P 456.1 – Secretarial Policy Statement on Nanoscale Safety (dated 09/15/05)
CODE OF COLORADO REGULATIONS (CCR)
2 CCR 402-2 - Water Well Construction
2 CCR 402-4 - Rules for Small Capacity Well Permits in Designated Ground Water Basins
2 CCR 406-8 Chapter 10, Article 2 and 3 - Non-Game Wildlife
5 CCR 1001. 1-20 - Colorado Department of Public Health & Environment, Air Quality Control Commission Regulations
5 CCR 1001-10, Regulation No. 8 - Control of Hazardous Air Pollutants
5 CCR 1001-19 - Control of Emission of Ozone Depleting Compounds
5 CCR 1002-31 - Basic Standards and Methodologies for Surface Water
5 CCR 1002-41 - The Basic Standards for Groundwater
5 CCR 1002-42 - Site-Specific Water Quality Classifications and Standards for Ground Water (Rocky Flats Area)
5 CCR 1002-61 - Colorado Discharge Permit System Regulations
5 CCR 1002-62 - Regulations for Effluent Limits
5 CCR 1002-63 - Pretreatment Regulations
5 CCR 1002-65 - Regulations Controlling Discharges to Storm Sewers
5 CCR 1003 -1 - Primary Drinking Water Regulations
5 CCR 1003-6 - Guidelines on Individual Sewage Disposal Systems
6 CCR 1007-1, Part 1 - General Provisions
6 CCR 1007-1, Part 2 - Registration of Radiation Producing Machines
6 CCR 1007-1, Part 3, Sections 1-7 - Exempt and General License Material
6 CCR 1007-1, Part 4 - Standards for Protection Against Radiation
6 CCR 1007-1, Part 8 - Radiation Safety Requirements for Analytical X-Ray Equipment
6 CCR 1007-1, Part 10 - Notices, Instructions, and Reports to Workers: Inspections
6 CCR 1007-1, Part 17 - Transportation of Radioactive Material
6 CCR 1007-3 - Colorado Hazardous Waste Regulations
7 CCR 1101-14 – Underground Storage Tanks and Aboveground Storage Tanks
8 CCR 1507-1 - Colorado Operation of Commercial Vehicles and Transportation of Hazardous Materials
8 CCR 1507-7 - Colorado Hazardous Materials Route Designation
8 CCR 1507-8 - Colorado Hazardous Materials Transportation Reporting
8 CCR 1507-9 - Colorado Transporting and Shipping of Hazardous Materials
Rules and Regulations Pertaining to the Administration and Enforcement of the Colorado Weed Management Act (Colorado

State Weed List - No citation available yet.)
COLORADO REVISED STATUTES (CRS)
8 CRS 20.5, Parts 1-3 - Petroleum Storage Tanks
25 CRS 7 - Air Quality Control
25 CRS 8 - Colorado Water Quality Control Act
25 CRS 10 - Individual Sewage Disposal Systems Act
25 CRS 15, Part 1, Part 3 - State Hazardous Waste Management Program
25 CRS 15, Part 1, Part 4 - Infectious Waste
29 CRS 22 - Hazardous Substances Incidents
33 CRS 2 - Nongame and Endangered Species Conservation
33 CRS 6 - Law Enforcement and Penalties
35 CRS 5 - Pest Control Districts
35 CRS 5.5 - Colorado Weed Management Act
35 CRS 9 - Pesticide Act
35 CRS 10 - Pesticide Applicators Act
37 CRS 90 - 101, et seq. - Colorado Ground Water Management Act
AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS (ACGIH)
ACGIH Threshold Limit Values for Chemical Substances and Physical Agents (Latest Edition)
AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)
ANSI Z136.1 - Safe Use of Lasers (Latest Version)
ANSI Z88.2 - American National Standard for Respiratory Protection
ANSI Z49.1:2005 - Safety in Welding, Cutting and Allied Processes
AMERICAN SOCIETY OF MECHANICAL ENGINEERS (ASME)
ASME Boiler and Pressure Vessel Code (Sections I - XII, including applicable Code cases)
NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)
NFPA - National Fire Codes (Latest Version of Each Code, or as Adopted by the Authority Having Jurisdiction)
NATIONAL INSTITUTE OF HEALTH (NIH)
NIH - Guidelines for Research Involving Recombinant DNA Molecules (Latest Edition)
Excluding:
<ul style="list-style-type: none"> • Section IV-B-2-a(3): Annual reporting to NIH including the roster of NREL's Institutional Biosafety Committee (IBC). • Section IV-B-2-a(6): Open IBC meetings to the public, when possible. • Section IV-B-2-a(7): All IBC meeting minutes will be made available to the public for review and comment. Public comments and the IBC response is to be forwarded to NIH.
INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS
International Building Code (IBC) 2006
International Fire Code (IFC) 2006
OTHER LOCAL STANDARDS
Consolidated Mutual Water Company Rules

Jefferson County Dept. of Health and Environment, Individual Sewage Disposal Sys. Reg.
Metro Wastewater Reclamation District Rules and Regulations
Pleasant View Water and Sanitation District Rules and Regulations
West Metro Fire Rescue Amendments to the International Fire Code

- V. Section J, Attachment F OPERATING AND ADMINISTRATIVE REQUIREMENTS (LIST B) is deleted and replaced as follows to reflect deletions and additional DOE Directives:

SECTION J – LIST OF DOCUMENTS, EXHIBITS AND OTHER ATTACHMENTS

**OPERATING AND ADMINISTRATIVE REQUIREMENTS (LIST B)
 Prime Contract No. DE-AC36-08GO28308**

Prime Contract No. DE-AC36-08GO28308

The operating and administrative requirements, including the Contractor Requirements Documents of DOE directives listed below are applicable in whole or in part in accordance with clauses H-18 Application of DOE Contractor Requirements Documents and 970.5204-2, Laws, Regulations, and DOE Directives (DEC 2000). The concurrence analysis documenting applicability for each requirement below is maintained in the DOE Master File as well as any assurances as required by Clause H-18, are made a part of this Contract by reference and are managed through a formal change control process.

Operating and Administrative Requirements	Applicability
DOE O 110.3A CRD Conference Management Approved: 01/25/07	CRD applicable in whole
DOE O 130.1 CRD Budget Formulation Approved: 09/29/95	CRD applicable in whole
DOE O 142.3A CRD Unclassified Foreign Visits and Assignments Program Approved: 10/14/2010	CRD applicable in whole
DOE O 151.1C CRD Comprehensive Emergency Management System Approved: 11/02/05	CRD applicable in whole
DOE O 200.1A Information Technology Management Approved: 12/23/2008	CRD applicable in whole
DOE N 203.1 CRD Software Quality Assurance Approved: 10/02/00	CRD applicable in whole
DOE O 205.1A CRD Department of Energy Cyber Security Management Approved: 12/04/06	CRD applicable in whole

Operating and Administrative Requirements	Applicability
DOE M 205.1-6 CRD Media Sanitization Manual Approved: 12/23/2008	CRD applicable in whole
DOE N 206.3 CRD Personal Identity Verification Approved: 11/22/05 (DOE N 251.67 extends DOE N 206.3 until 03/22/07)	CRD applicable in part
DOE N 206.5 CRD Response and Notification Procedures for Data Breaches Involving Personally Identifiable Information Approved: 10/09/07	CRD applicable in whole
DOE O 210.2 CRD Corporate Operating Experience Program Approved: 06/12/06	CRD applicable in whole
DOE O 221.1A CRD Reporting Fraud, Waste, and Abuse to the Office of Inspector General Approved: 04/19/08	CRD applicable in whole
DOE O 221.2 CRD Cooperation with the Office of Inspector General Approved: 03/22/01	CRD applicable in whole
DOE O 225.1A CRD Accident Investigations Approved: 11/26/97	CRD applicable in whole
DOE O 226.1A CRD Implementation of Department of Energy Oversight Policy Approved: 07/31/07	CRD applicable in whole
DOE M 231.1-1A CRD Change 2 Environment, Safety and Health Reporting Manual Approved: 03/19/04 Change 2: 06/12/07	CRD applicable in whole
DOE M 231.1-2 CRD Occurrence Reporting and Processing of Operations Information Approved: 08/19/03	CRD applicable in whole
DOE O 241.1A CRD Scientific and Technical Information Management Approved: 04/09/01	CRD applicable in whole
DOE O 243.1 CRD Records Management Program Approved: 02/03/06	CRD applicable in whole
DOE O 243.2 CRD Vital Records Approved: 02/02/06	CRD applicable in whole

Operating and Administrative Requirements	Applicability
DOE O 350.1 CRD(s) Change 1 Contractor Human Resource Management Programs Approved: 09/30/96 Change 1: 05/08/98	CRD applicable in whole
DOE O 350.2A CRD Use of Management and Operating or Other Facility Management Contractor Employees for Services to DOE in the Washington, D.C., Area Approved: 10/29/03	CRD applicable in whole
DOE O 412.1 CRD Work Authorization System Approved: 04/20/99	CRD applicable in whole
DOE O 413.1A CRD Management Control Program Approved: 04/18/02	CRD applicable in whole
DOE O 413.2B CRD Laboratory Directed Research and Development Approved: 04/19/06	CRD applicable in whole
DOE O 413.3B CRD Program and Project Management for the Acquisition of Capital Assets Approved: 11/29/2010	CRD applicable in whole
DOE O 414.1C CRD Quality Assurance Approved: 06/17/05	CRD applicable in part
DOE O 430.1B CRD Real Property Asset Management Approved: 09/24/03	CRD applicable in whole
DOE O 430.2A CRD Departmental Energy and Utilities Management Approved: 04/15/02	CRD applicable in whole
DOE O 442.1A CRD Department of Energy Employee Concerns Program Approved: 06/06/01	CRD applicable in whole
DOE O 450.1A CRD Environmental Protection Program Approved: 06/04/08	CRD applicable in whole
DOE M 450.4-1 CRD Integrated Safety Management System Manual Approved: 11/01/06	CRD applicable in whole
DOE N 456.1A CRD The Safe Handling of Unbound Engineered Nanoparticles Approved: 01/05/09	CRD applicable in part
DOE O 470.2B CRD Independent Oversight and Performance Assurance Program Approved: 10/31/02	CRD applicable in whole

Operating and Administrative Requirements	Applicability
DOE M 470.4-1 CRD Change 2 Safeguards and Security Program Planning and Management Approved: 08/26/05 Change 1: 10/20/10	CRD applicable in part
DOE M 470.4-2 CRD Change 1 Physical Protection Approved: 08/26/05 Change 1: 03/07/06	CRD applicable in part
DOE M 470.4-3 CRD Change 1 Protective Force Approved: 08/26/05 Change 1: 03/07/06	CRD applicable in part
DOE M 470.4-5 CRD Personnel Security Approved: 08/26/05	CRD applicable in part
DOE O 471.3 CRD Identifying and Protecting Official Use Only Information Approved: 04/09/03	CRD applicable in whole
DOE M 471.3-1 CRD Manual for Identifying and Protecting Official Use Only Information Approved: 04/09/03	CRD applicable in whole
DOE O 475.1 CRD Counterintelligence Program Approved: 12/10/04	CRD applicable in whole
DOE O 482.1 CRD DOE Facilities Technology Partnering Programs Approved: 01/12/01	CRD applicable in whole
DOE O 483.1 CRD DOE Cooperative Research and Development Agreements Approved: 01/12/01	CRD applicable in whole
DOE O 484.1 CRD Reimbursable Work for the Department of Homeland Security Approved: 08/17/06	CRD applicable in whole
DOE O 522.1 CRD Pricing of Departmental Materials and Services Approved: 11/03/04	CRD applicable in whole
DOE O 534.1B CRD Accounting Approved: 01/06/03	CRD applicable in whole
DOE O 551.1B CRD Official Foreign Travel Approved: 08/19/03	CRD applicable in whole

Operating and Administrative Requirements	Applicability
DOE O 580.1 CRD Department of Energy Personal Property Management Program Approved: 12/07/05	CRD applicable in whole

**Summary of Modifications to Attachment F
Operating and Administrative Requirements
Mod 326**

Deleted	DOE O 142.3 CRD Unclassified Foreign Visits and Assignments Program Approved: 06/18/04	CRD applicable in whole
Added	DOE O 142.3A CRD Unclassified Foreign Visits and Assignments Program Approved: 10/14/2010	CRD applicable in whole
Deleted	DOE O 251.1B CRD Departmental Directives Program Approved: 08/16/06	CRD applicable in whole
Deleted	DOE O 413.3A CRD Program and Project Management for the Acquisition of Capital Assets Approved: 07/28/06	CRD applicable in whole
Added	DOE O 413.3B CRD Program and Project Management for the Acquisition of Capital Assets Approved: 11/29/2010	CRD applicable in whole
Deleted	DOE M 470.4-1 CRD Change 1 Safeguards and Security Program Planning and Management Approved: 08/26/05 Change 1: 03/07/06	CRD applicable in part
Added	DOE M 470.4-1 CRD Change 2 Safeguards and Security Program Planning and Management Approved: 08/26/05 Change 1: 10/20/10	CRD applicable in part
Deleted	DOE M 470.4-4 CRD Information Security Approved: 08/26/05	CRD applicable in part

VI. Section J, Attachment J, Performance Evaluation and Measurement Plan (as submitted by the Alliance on March 25, 2011) is hereby incorporated into this contract by reference.

- VII. Section J, Attachment K, Diversity Plan dated March 24, 2011 is hereby incorporated into this contract by reference
- VIII. Section J, Attachment O, Commercialization Plan dated September 1, 2010 is hereby by incorporated into this contract by reference
- IX. Section J, Attachment P, 5 Year Strategic Plan dated September 1, 2010 is hereby incorporated into this contract by reference
- X. All other terms and conditions of the contract remain the same.